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## WHAT IS CLAIMED IS:

1. A method of preparing a preform for a RTM molding process comprising the steps of:

forming a layer of reinforcing fibers;

applying a patterned discontinuous layer of a tackifier resin to at least one side of the layer of reinforcing fibers; and curing the tackifier resin.

- 2. The method of claim 1 wherein the patterned discontinuous layer of tackifier resin is applied by a patterned roller.
- 3. The method of claim 1 wherein the patterned discontinuous layer of tackifier resin is applied by a release sheet.
- 4. The method of claim 1 wherein the patterned discontinuous layer of tackifier resin is applied by at least one spray nozzle.
- 5. The method of claim 1 wherein the layer of reinforcing fibers is selected from the group consisting of uni-directional fibers, bi-directional fibers and random mat.
- 6. The method of claim 1 wherein the tackifier resin is selected from the group consisting of thermosetting resin, thermoplastic resin, EM wave activated resin and self curing resin.
- 7. The method of claim 1 wherein the tackifier resin is applied in a quantity of about \(^{1}\sqrt{4}\) percent to about 10 percent of the areal weight of the reinforcing fiber.
- 8. The method of claim 1 wherein the tackifier resin is applied in a quantity of about 30 volume percent to about 40 volume percent.
  - 9. The method of claim 1 wherein the patterned discontinuous layer is in the form of a herringbone pattern.
  - 10. The method of claim 1 further comprising forcing an effective quantity of tackifier resin into an effective number of fibers.

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- 11. The method of claim 1 further comprising preparing the tackified reinforcing fibers for shipping.
- 12. The method of claim 11 wherein the tackified reinforcing fibers are wrapped onto a roll.
- 5 13. The method of claim 11 wherein the tackified reinforcing fibers are cut and stacked.
  - 14. The preform for a RTM molding process produced by the method of claim 1.
  - 15. An apparatus for applying a discontinuous pattern of a tackifier in the manufacture of a preform for a RTM molding process comprising:
    - a transport system, said system supporting a layer of reinforcing fibers, and an applicator positioned to apply an effective amount of the tackifier in a discontinuous pattern to at least one side of the layer of reinforcing fibers.
  - 16. The apparatus of claim 15 wherein the applicator is a patterned roller comprising a patterned surface in contact with a side of the layer of reinforcing fibers, the patterned roller having a means for receiving an uninterrupted supply of tackifier.
  - 17. The apparatus of claim 16 wherein the means for receiving the uninterrupted supply of tackifier is a supply roller having a surface in physical contact with a surface of the patterned roller, the supply roller surface having a means to receive an uninterrupted supply of tackifier from a tackifier resin supply source, such that the supply roller surface transfers an effective amount of tackifier to the patterned roller surface.
  - 18. A method of preparing of preparing a fiber-reinforced composite article for use in a gas turbine engine, comprising the steps of:

forming a layer of reinforcing fibers;

applying a patterned discontinuous coating of adhesive tackifier resin in a predetermined amount to at least one side of the layer of reinforcing fibers to form a tacky ply;

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assembling a plurality of the plys to form a preform, the predetermined amount of adhesive tackifier resin being sufficient to maintain the assembled plies in a shape of the preform;

placing the preform into a mold; then

injecting a second resin in liquid form into the mold to form a continuous matrix of resin between and around the plies of the preform; and curing the preform to from a near net shape article.